

Fig. 1

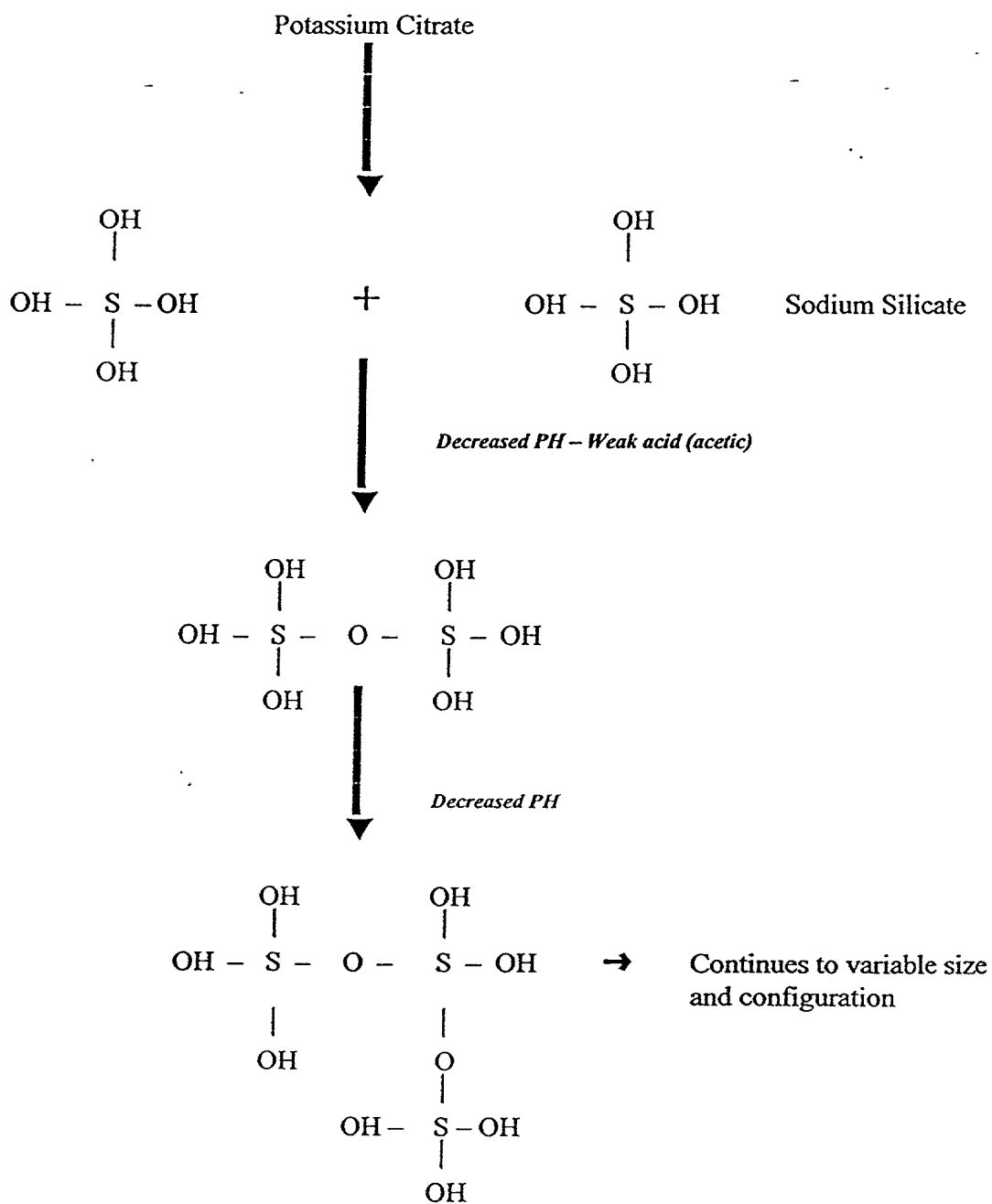


Fig. 2

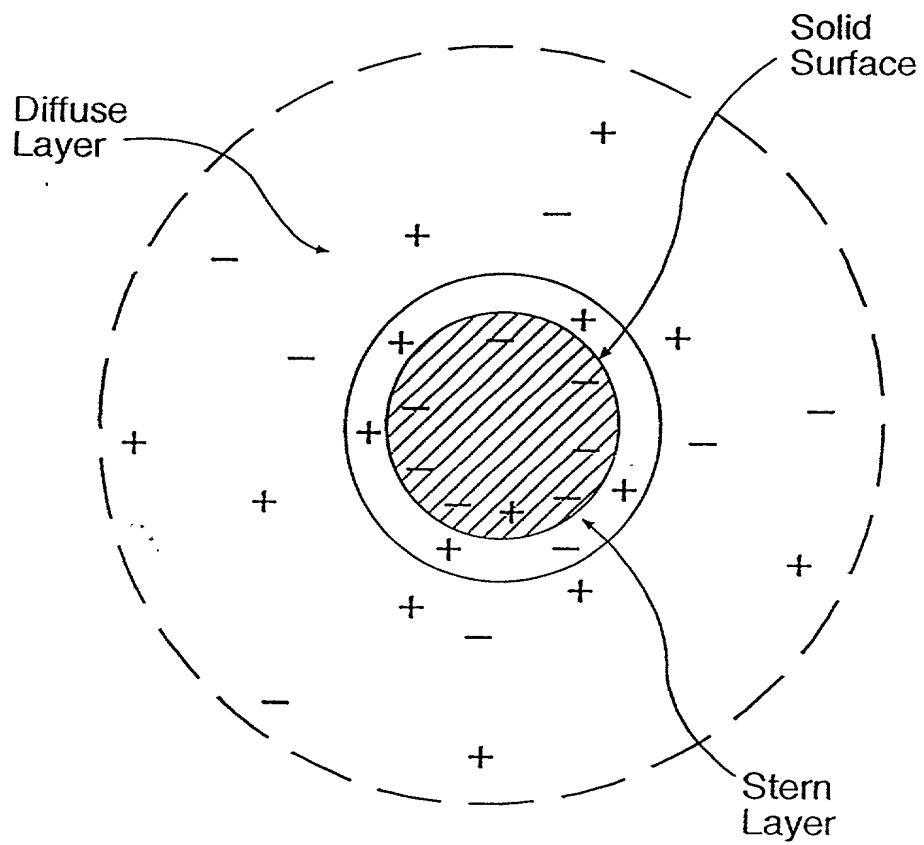


FIG. 4

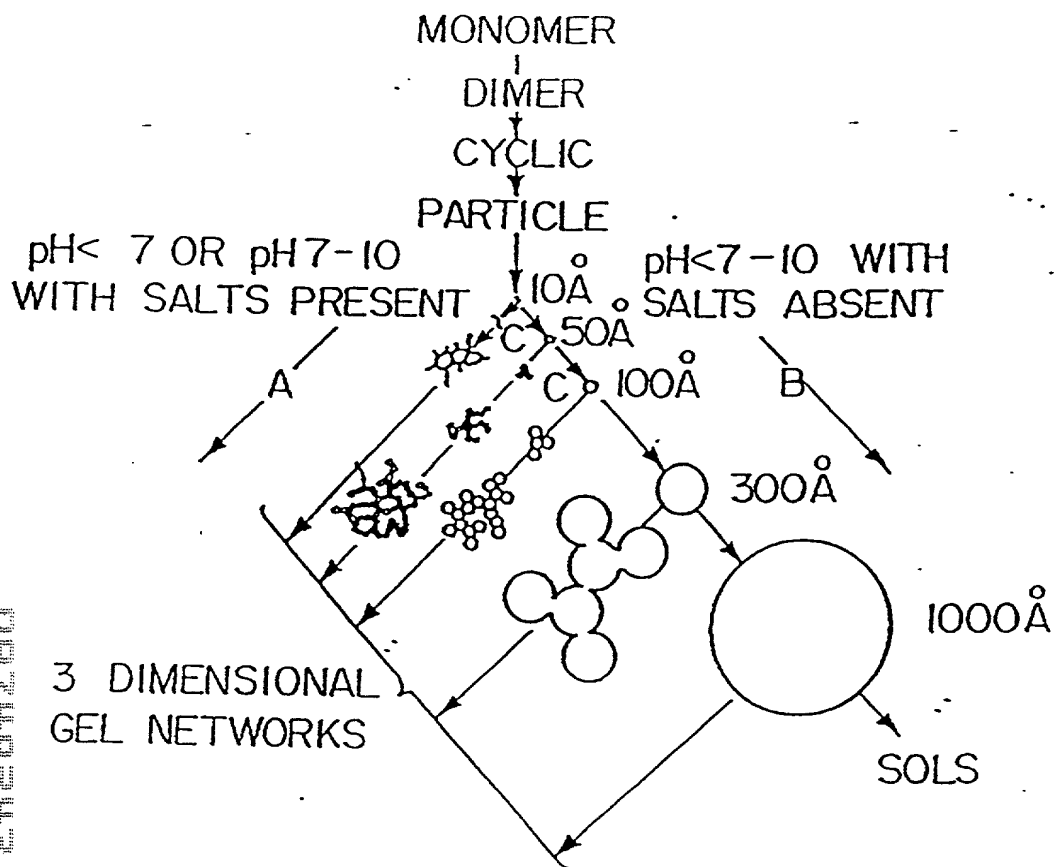


FIG. 5

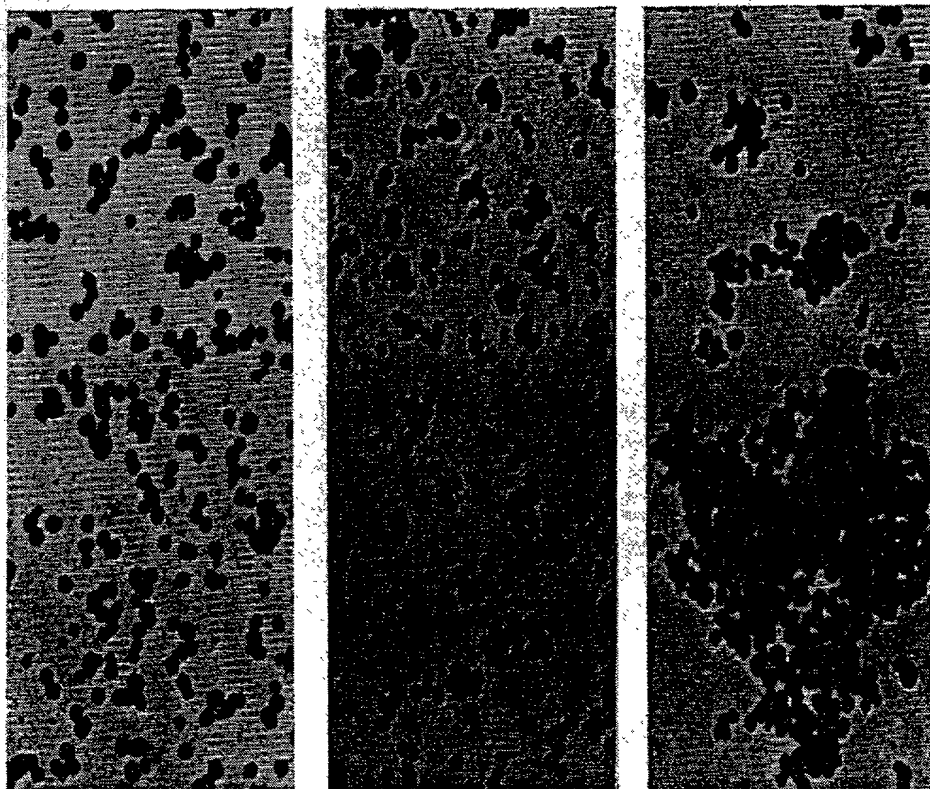


FIG. 26.—Electron micrographs showing stages of aggregation of 35 millimicron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

FIG. 6

bound water

coarse structure

colloid particle



6a.

Electron photomicrograph of the colloid of the
invention. 5a.

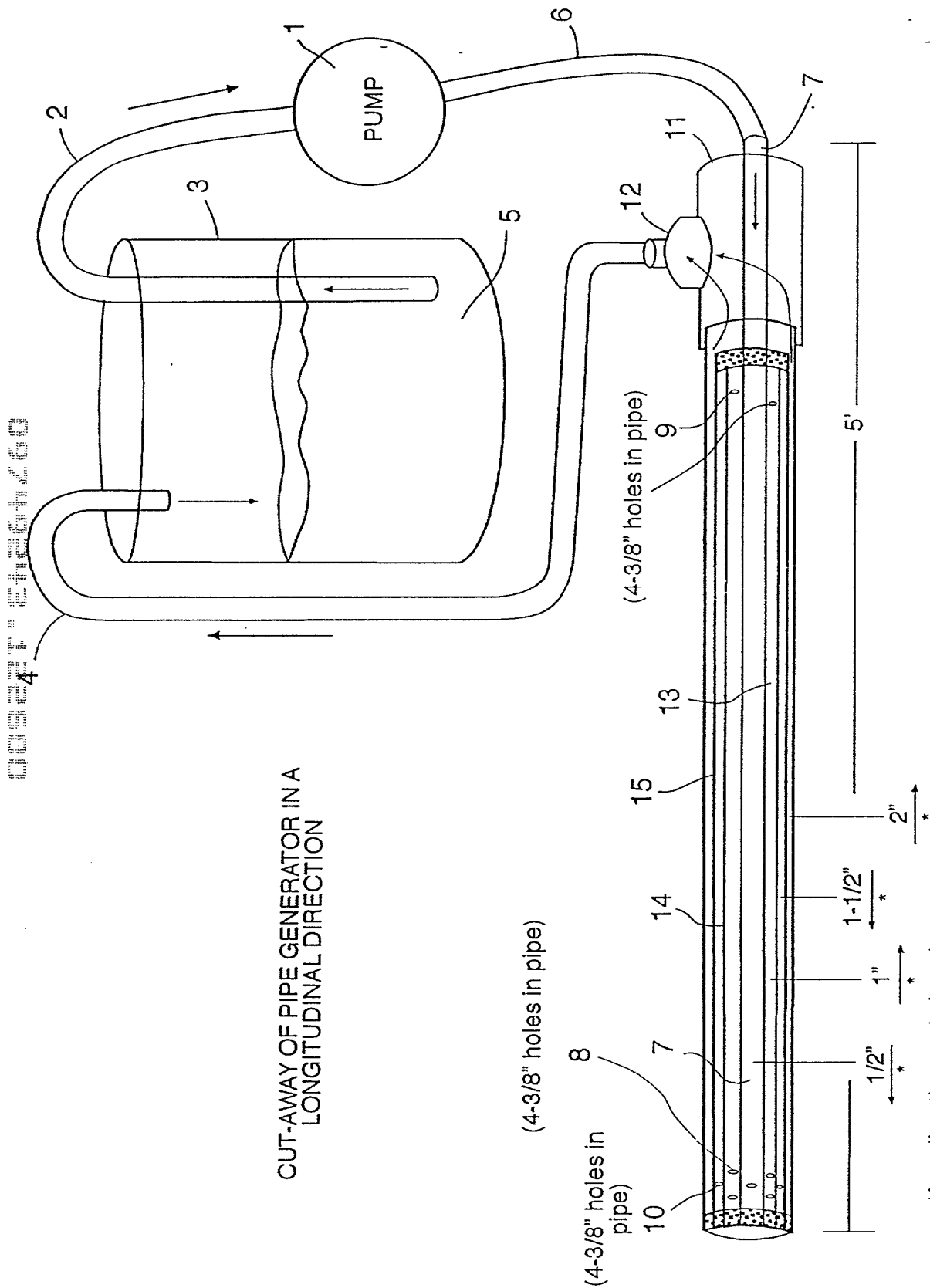
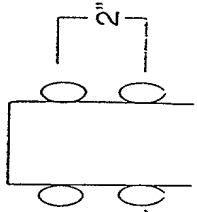


FIG. 7

SECTION OF GENERATOR



3 devices are 1' apart
(center - center)

1" magnets making up
aquapurge

(A)

CUT-AWAY OF PIPE GENERATOR IN A LONGITUDINAL DIRECTION

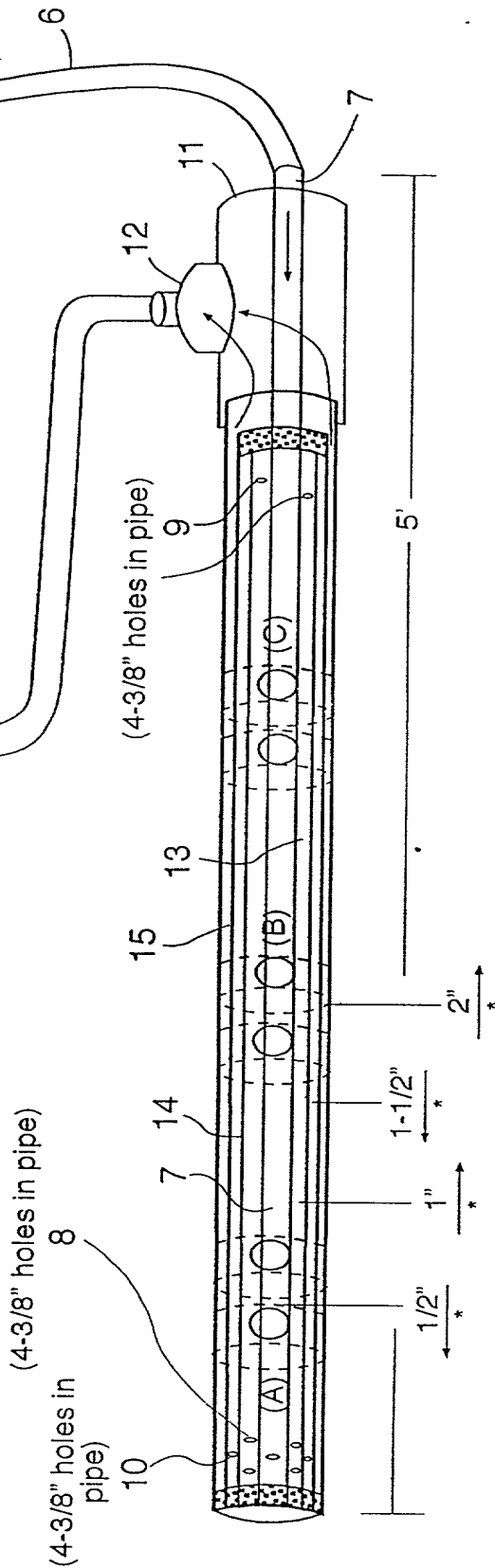
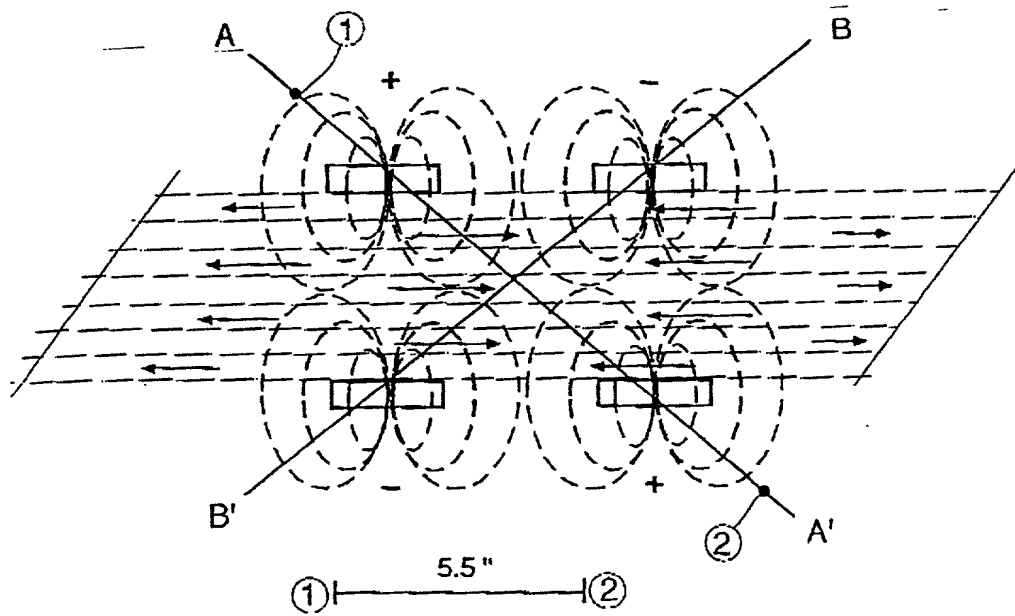


FIG. 8

Cross sectional view of counter current generator of the invention
with lines A-A' and B-B' noted for measurement purposes.



Plot of Gradients in "z" axis

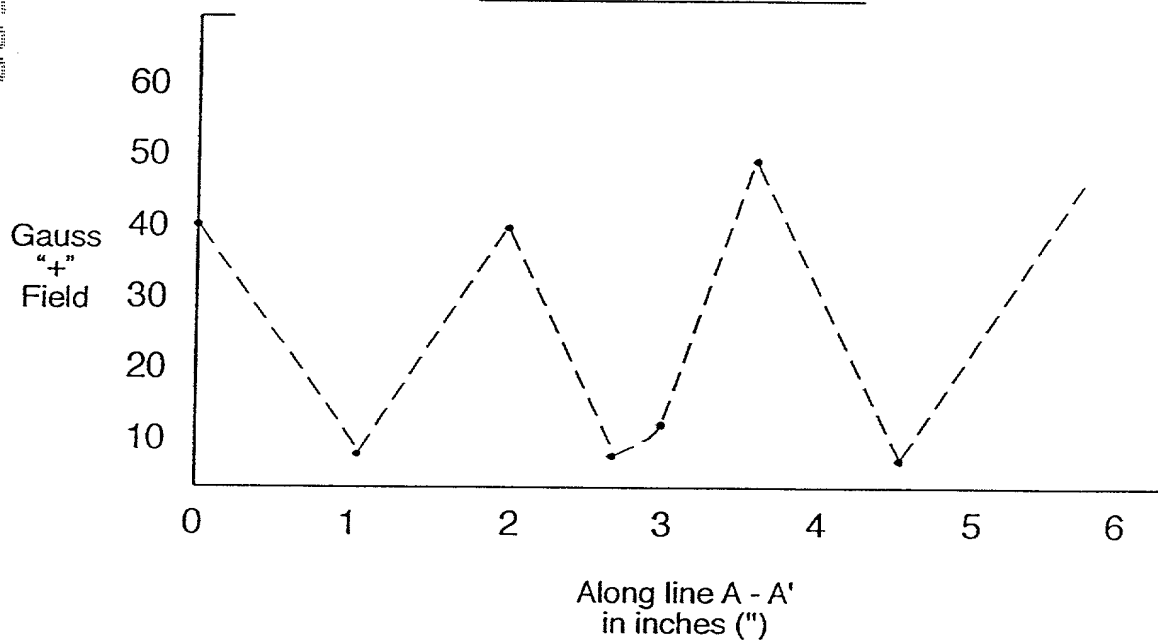


FIG. 9

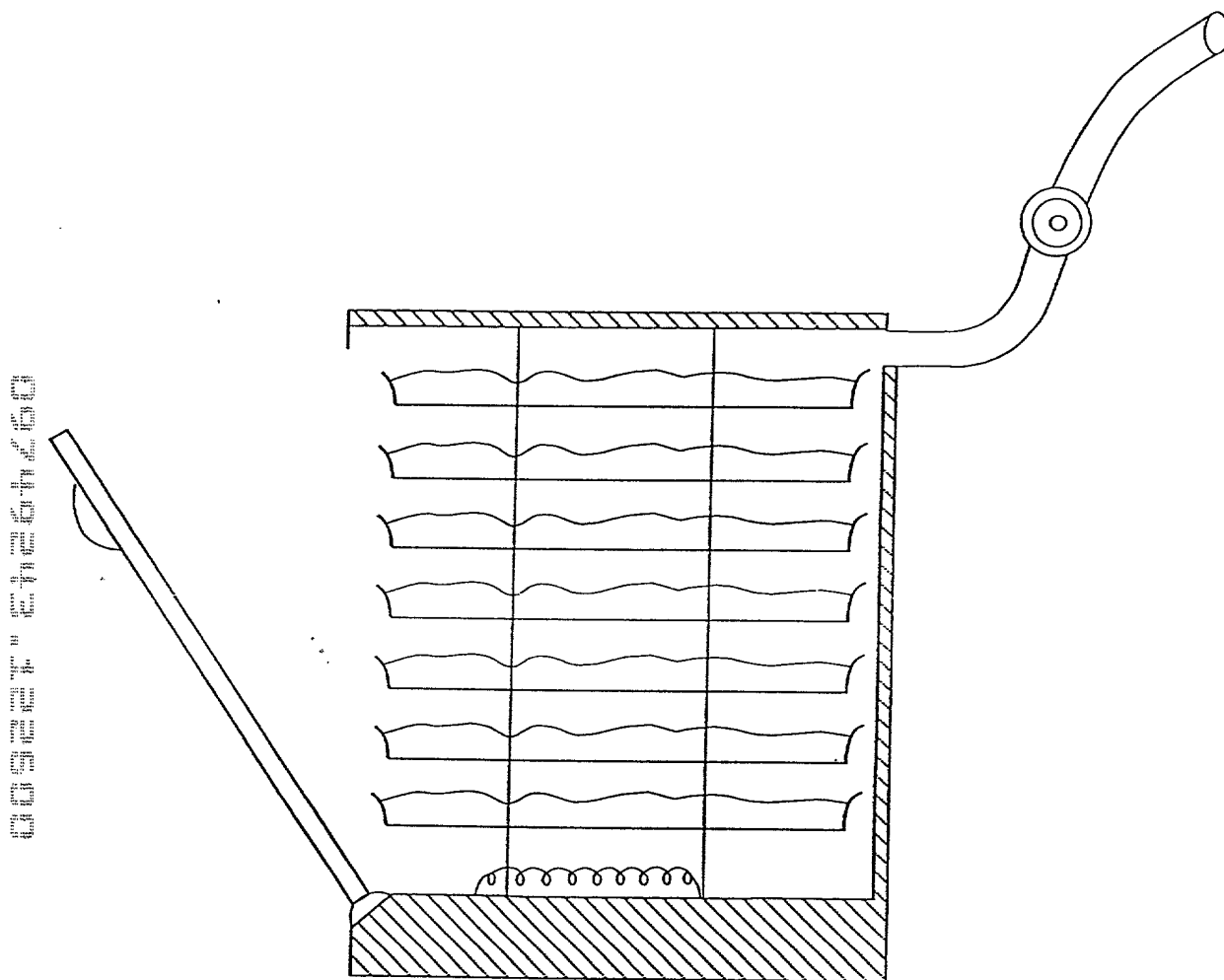


FIG. 10

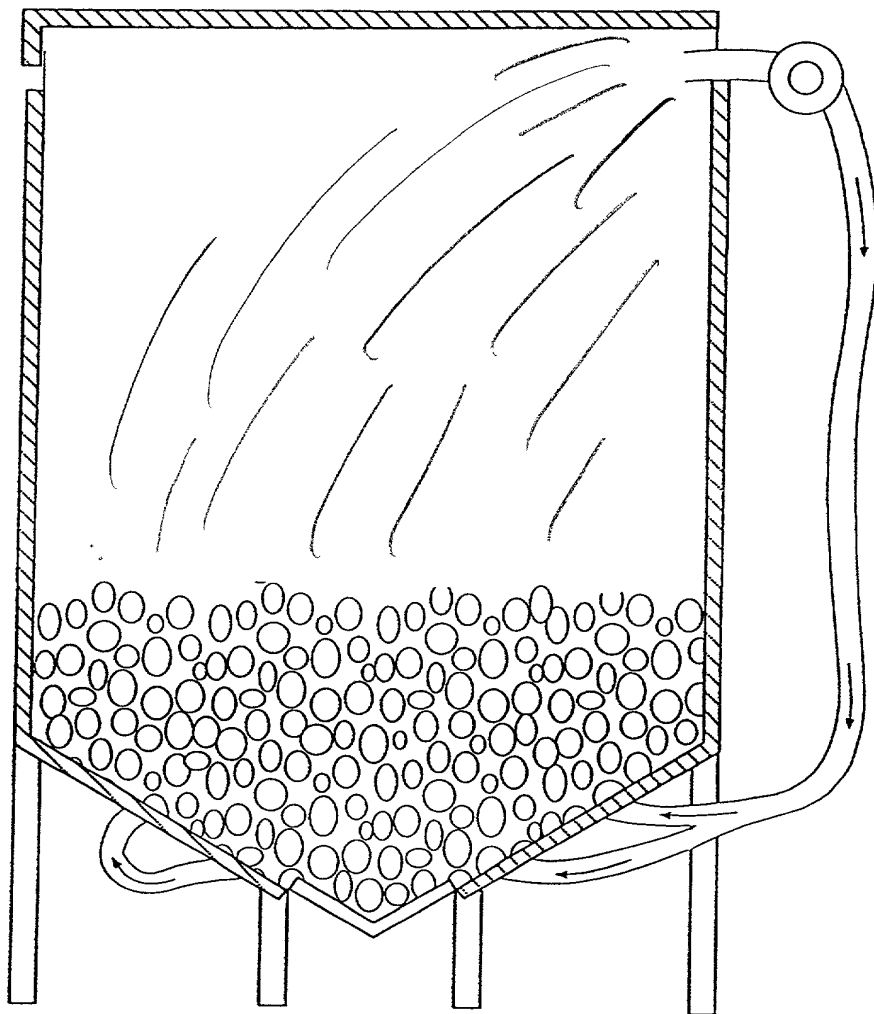


FIG. 11

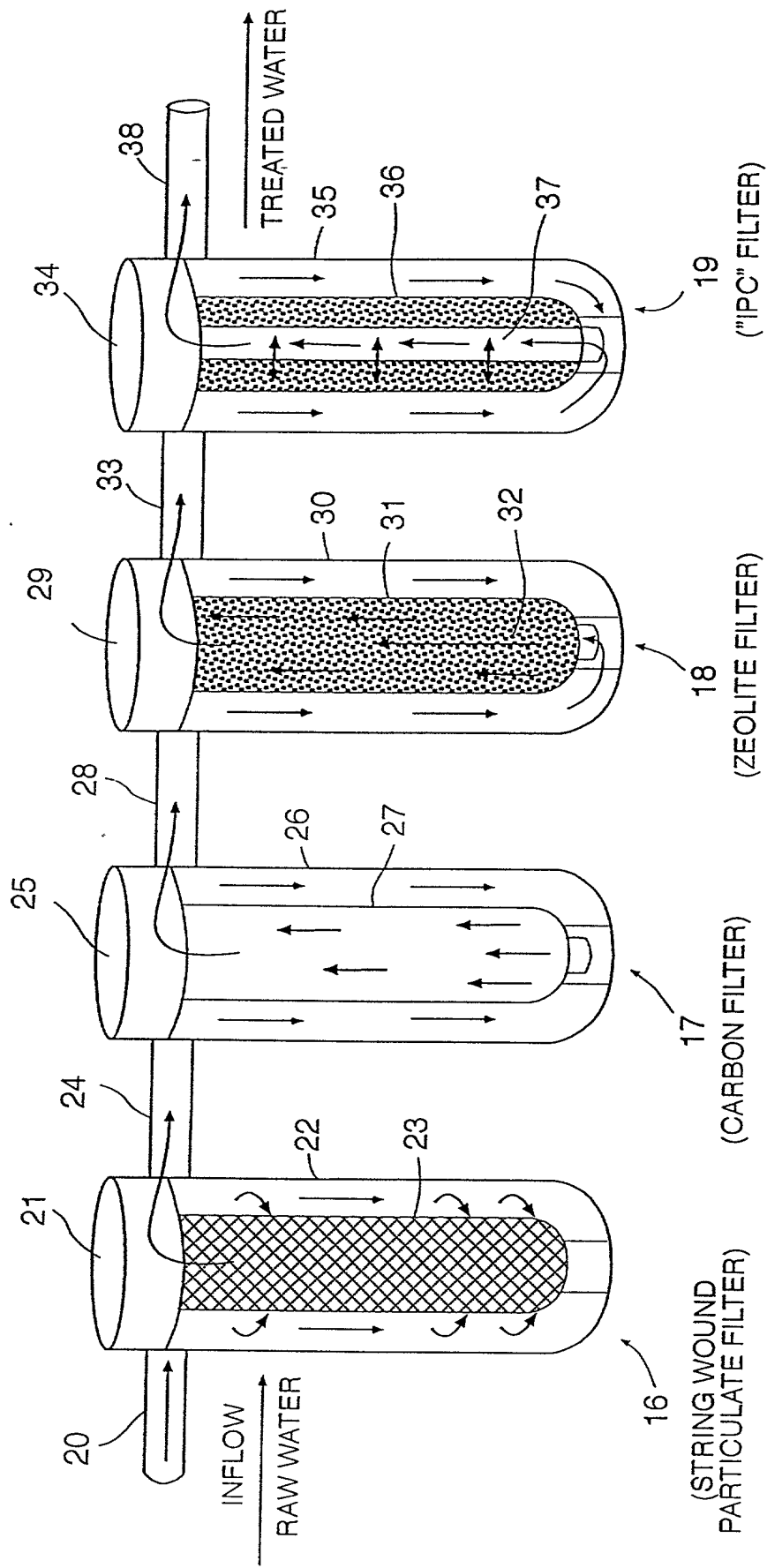


FIG. 12

HOME WATER SOFTENER, WITH AUTOMATIC CONTROLLER FOR REGENERATION AND SERVICE

IPC CONVERSION

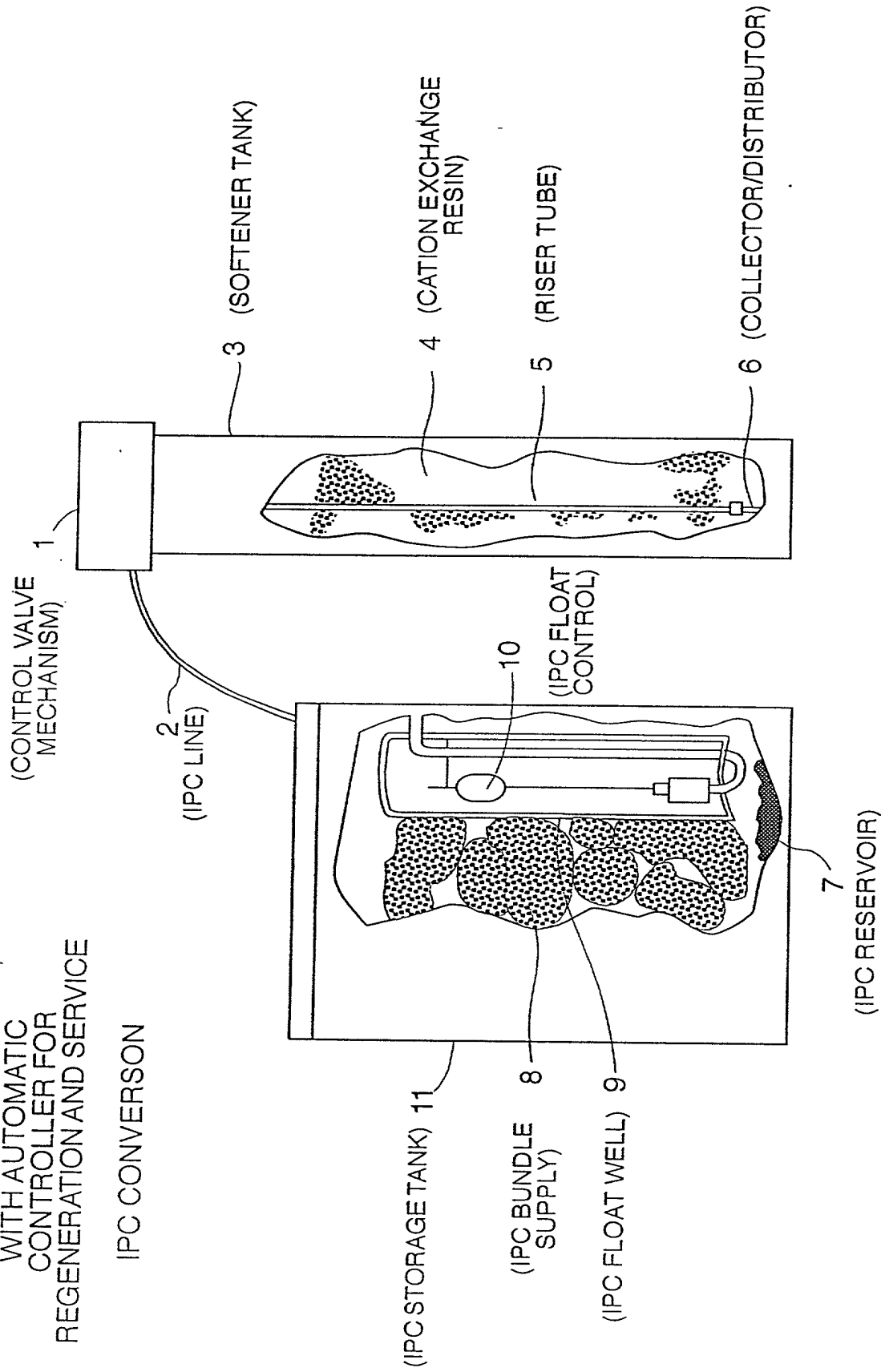


FIG. 14

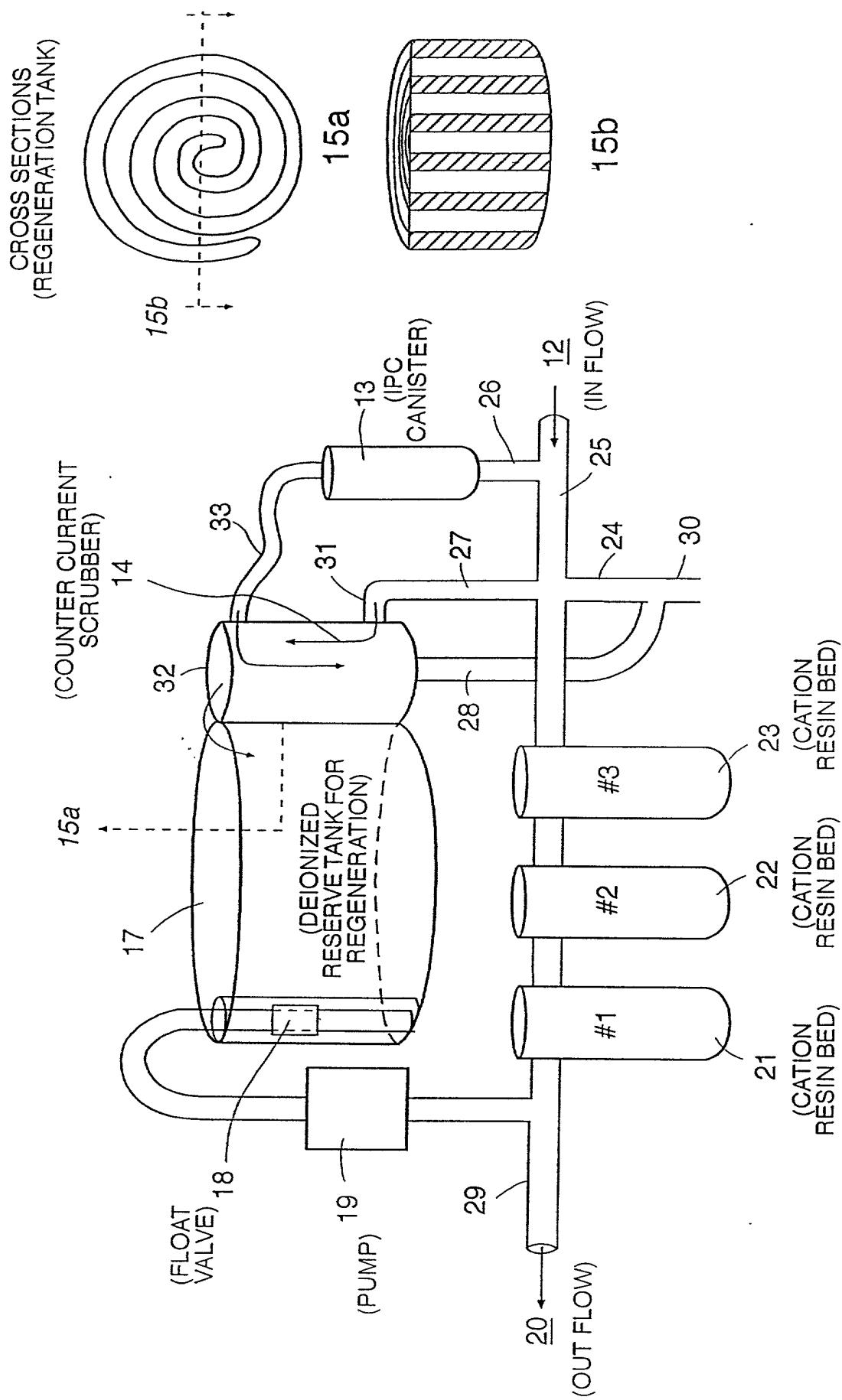


FIG. 15

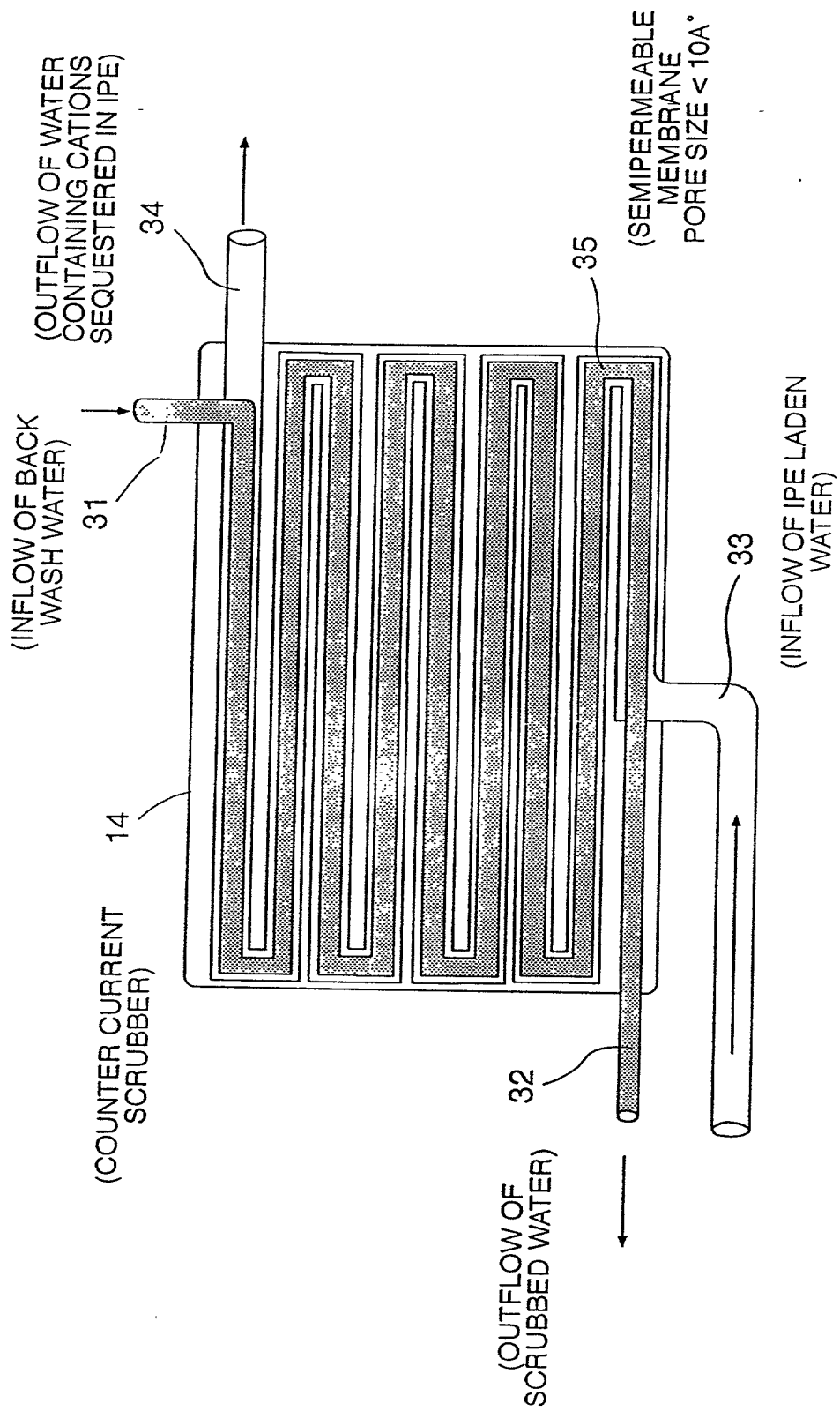


FIG. 16

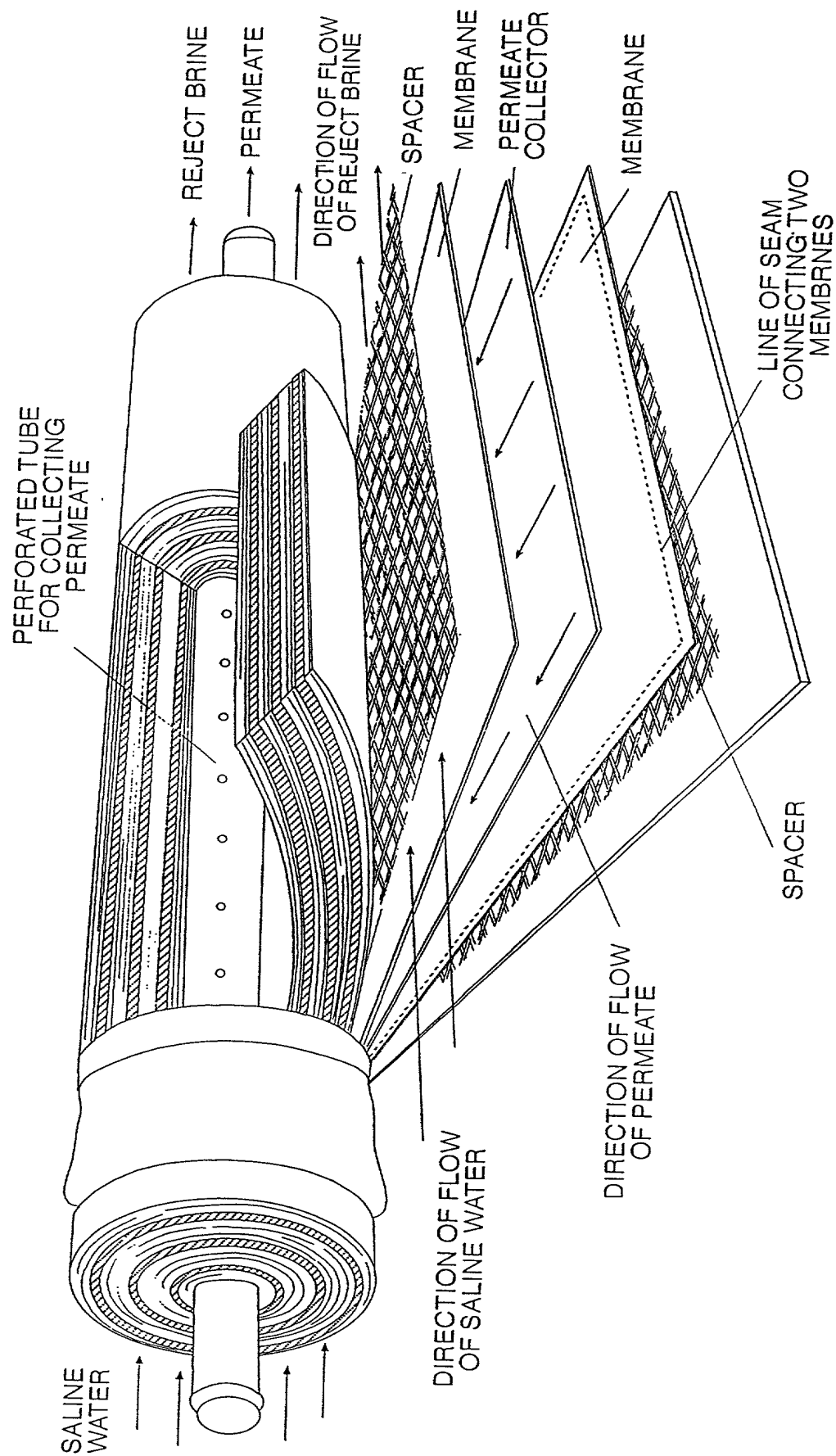


FIG. 18

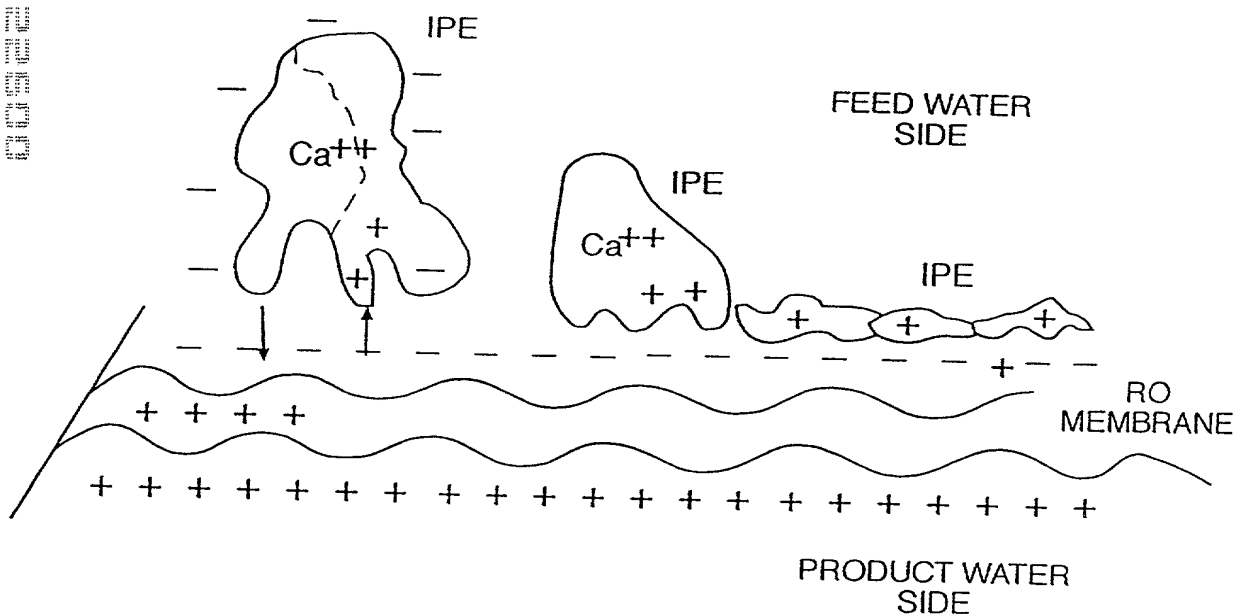
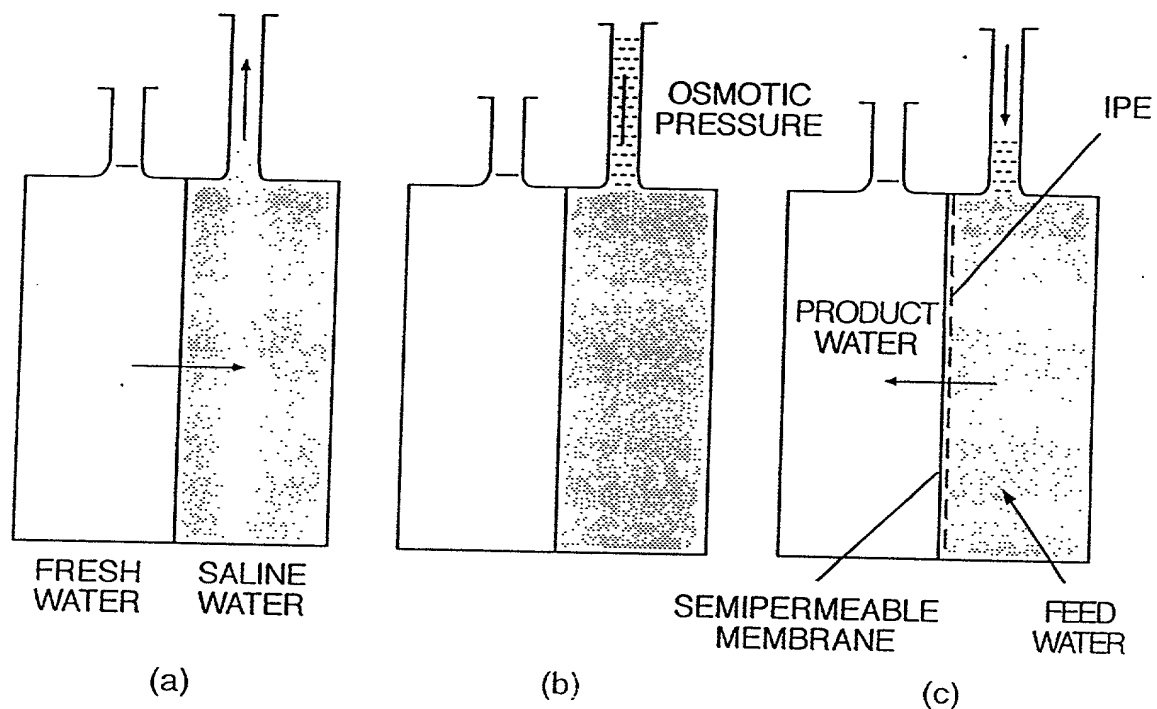
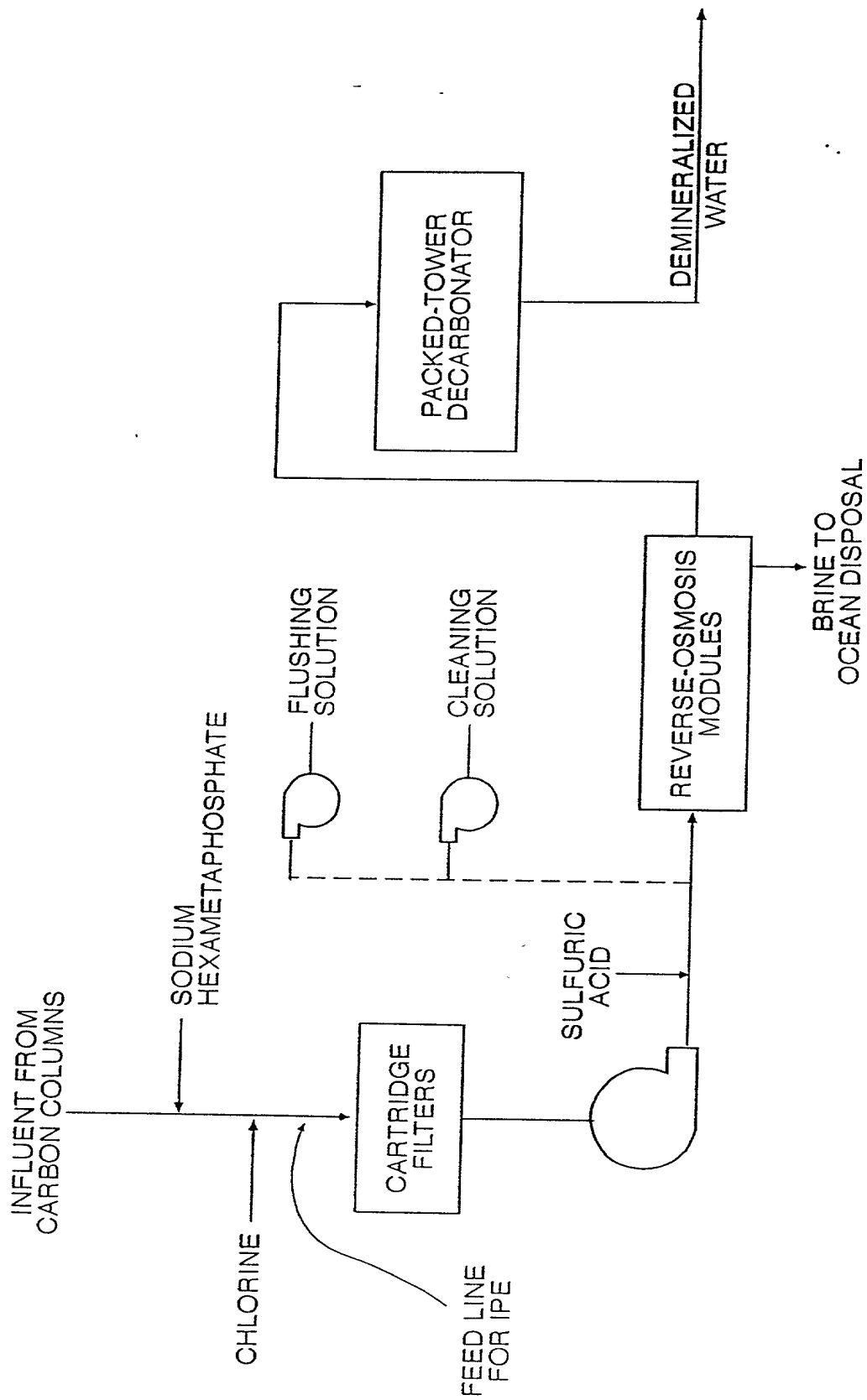


FIG. 19



SODIUM
HEXAMETAPHOSPHATE

CHLORINE

CARTRIDGE

FOR ENL

SULFURIC
ACID

FLUSHING SOLUTION

CLEANING
SOLUTION

REVERSE-OSMOSIS MODULES

BRINE TO OCEAN DISPOSAL

PACKED-TOWER DECARBONATOR

DEMINEALIZED
WATER